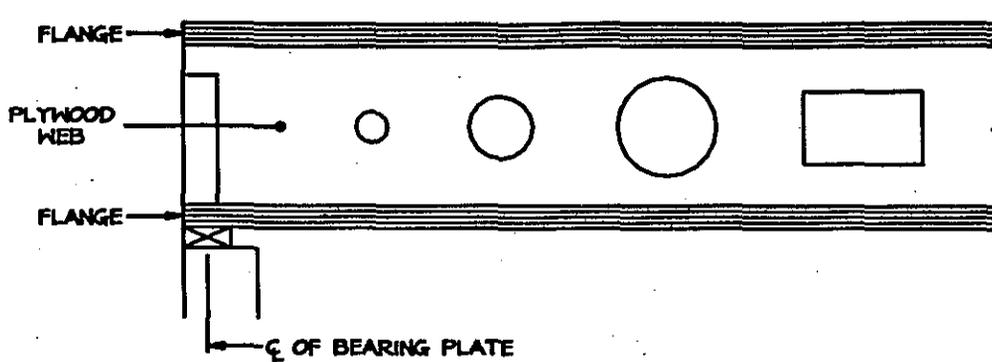


ATTACHMENT B

FIGURE NO. 3A ALLOWABLE HOLE SIZE CHART FOR JOISTS WITH PLYWOOD WEBS



		DIAMETER										
		3"	4"	5"	6"	7"	8"	9"	10"	12"	14"	16"
SPAN IN FEET	14	1-0	1-3	1-6	2-0	2-3	2-6	3-0	3-3	4-0	4-6	5-3
	15	1-0	1-3	1-9	2-0	2-6	2-9	3-0	3-6	4-3	5-0	5-6
	16	1-0	1-6	1-9	2-3	2-6	3-0	3-3	3-9	4-6	5-3	6-0
	17	1-0	1-6	1-9	2-3	2-9	3-0	3-6	4-0	4-9	5-6	6-3
	18	1-3	1-6	2-0	2-6	2-9	3-3	3-9	4-3	5-0	5-9	6-9
	19	1-3	1-6	2-0	2-6	3-0	3-6	4-0	4-6	5-3	6-3	7-0
	20	1-3	1-9	2-3	2-9	3-3	3-9	4-0	4-6	5-6	6-6	7-6
	21	1-3	1-9	2-3	2-9	3-3	3-9	4-3	4-9	5-9	6-9	7-9
	22	1-3	1-9	2-3	3-0	3-6	4-0	4-6	5-0	6-0	7-3	8-3
	23	1-6	2-0	2-6	3-0	3-9	4-3	4-9	5-3	6-3	7-6	8-6
	24	1-6	2-0	2-6	3-3	3-9	4-3	5-0	5-6	6-9	7-9	9-0
	25	1-6	2-0	2-9	3-3	4-0	4-6	5-0	5-9	7-0	8-0	9-3
	26	1-6	2-3	2-9	3-6	4-0	4-9	5-3	6-0	7-3	8-6	9-9
	27	1-9	2-3	3-0	3-6	4-3	4-9	5-6	6-3	7-6	8-9	10-0
	28	1-9	2-3	3-0	3-9	4-6	5-0	5-9	6-6	7-9	9-0	10-6
	29	1-9	2-3	3-0	3-9	4-6	5-3	6-0	6-6	8-0	9-6	10-9
	30	1-9	2-3	3-3	4-0	4-9	5-6	6-0	6-9	8-3	9-9	11-3
	31	1-9	2-6	3-3	4-0	4-9	5-6	6-3	7-0	8-6	10-0	11-6
	32	2-0	2-9	3-6	4-3	5-0	5-9	6-6	7-3	8-9	10-3	12-0
	33	2-0	2-9	3-6	4-3	5-3	6-0	6-9	7-6	9-0	10-9	12-3
	34	2-0	2-9	3-6	4-6	5-3	6-0	7-0	7-9	9-3	11-0	12-9
	35	2-0	3-0	3-9	4-6	5-6	6-3	7-0	8-0	9-9	11-3	13-0
	36	2-3	3-0	3-9	4-9	5-6	6-6	7-3	8-3	10-0	11-9	13-6

MINIMUM DISTANCE FROM CENTER LINE OF SUPPORT IN FEET AND INCHES TO CENTER LINE OF HOLE

TJI JOIST HOLE CHART INSTRUCTIONS

ROUND HOLES - For simple spans and uniform loads use the table above (table on page 21 for joists having OSB webs) to determine holes sizes.

SQUARE HOLES - Square holes sizes are determined by multiplying the maximum round hole diameter by a factor of 0.8 for plywood and 0.7 for OSB.

MULTIPLE HOLES - Where more than one hole is desired, the amount of wood between holes shall equal or exceed twice the diameter of the largest hole or twice the side of the largest square hole.

CANTILEVERS AND CONTINUOUS SPANS - For uniformly loaded cantilevers and continuous TJI joists, the holes shall be located 1 inch farther from the support for each foot of clear span in addition to the values indicated in the table above.

SPECIAL - Exceptions to these rules are possible under some conditions through special inquiry.

NOTE - Do not cut the joist within 4 inches of the support centerline, otherwise a 2 inch hole can be cut in the web anywhere. **THE TOP AND BOTTOM FLANGES ARE NEVER TO BE CUT** - The sizes given in the table are hole sizes, not duct sizes.

FOR JOISTS with 1.50 inch and 1.75 inch wide x 1.5 inch thick flanges - Where more than three-fourths of the depth of the web is removed, 1 foot shall be added to the distance.

FIGURE NO. 3B ALLOWABLE HOLE SIZE CHART FOR JOISTS WITH OSB WEBS

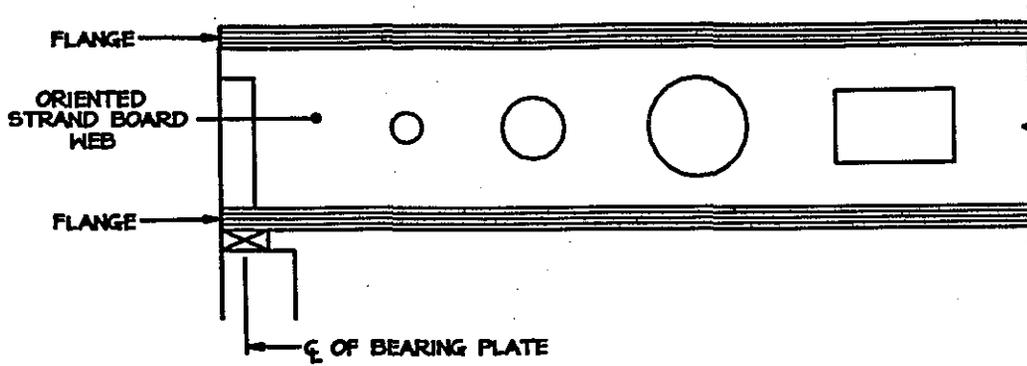


TABLE A
HOLE FACTOR - DIAMETER OF HOLE¹

JOIST DEPTH IN INCHES	HOLE FACTOR				
	2	3	4	5	6
10	2 1/4"	3"	3 3/4"	4 1/2"	5 1/4"
12	3"	4"	5"	6 3/4"	8 3/4"
14	3 1/2"	4 3/4"	6"	7 1/4"	8 1/2"
16	4 1/4"	5 3/4"	7"	8 1/2"	10"
18	5"	6 1/2"	8 1/4"	9 3/4"	11 1/2"
20	5 1/2"	7 1/2"	9 1/4"	11 1/4"	13"
22	6 1/4"	8 1/4"	10 1/2"	12 1/2"	14 3/4"
24	7"	9 1/4"	11 1/2"	13 3/4"	16 1/4"
26	7 1/2"	10 1/4"	12 3/4"	15 1/4"	17 3/4"
28	8 1/4"	11"	13 3/4"	16 1/2"	19 1/4"
30	9"	12"	15"	17 3/4"	20 3/4"

TABLE B
MINIMUM DISTANCE FROM CENTER LINE OF SUPPORT TO CENTER LINE OF HOLE

JOIST DEPTH IN INCHES	SPAN IN FEET	HOLE FACTOR				
		2	3	4	5	6
14	14	1'-3"	2'-0"	2'-6"	3'-0"	4'-0"
	15	1'-6"	2'-3"	3'-0"	3'-6"	4'-6"
	16	1'-6"	2'-3"	3'-0"	4'-0"	4'-6"
	17	1'-6"	2'-6"	3'-3"	4'-3"	5'-0"
	18	1'-6"	2'-6"	3'-6"	4'-6"	5'-3"
	19	1'-6"	2'-6"	3'-6"	4'-6"	5'-6"
	20	2'-0"	3'-0"	4'-0"	5'-0"	6'-0"
	21	2'-0"	3'-0"	4'-0"	5'-3"	6'-3"
	22	2'-0"	3'-3"	4'-3"	5'-6"	6'-6"
	23	2'-3"	3'-3"	4'-6"	5'-6"	6'-6"
	24	2'-3"	3'-6"	4'-6"	5'-0"	7'-0"
	25	2'-6"	3'-6"	5'-0"	5'-3"	7'-6"
	26	2'-6"	3'-6"	5'-0"	5'-6"	7'-6"
	27	2'-6"	4'-0"	5'-3"	6'-6"	8'-0"
	28	2'-6"	4'-0"	5'-6"	7'-0"	8'-3"
	29	2'-6"	4'-3"	5'-6"	7'-3"	8'-6"
	30	3'-0"	4'-6"	6'-0"	7'-6"	8'-0"
	31	3'-0"	4'-6"	6'-0"	7'-6"	8'-3"
32	3'-0"	4'-6"	6'-3"	6'-0"	8'-6"	
33	3'-3"	4'-6"	6'-6"	6'-3"	8'-6"	
34	3'-3"	5'-0"	6'-6"	6'-6"	10'-0"	
35	3'-6"	5'-3"	7'-0"	6'-6"	10'-6"	
36	3'-6"	5'-3"	7'-0"	6'-0"	10'-6"	

¹If a particular hole diameter is not given in the table, the next largest size diameter indicated should be used.

Instructions:

1. From the Hole Factor Table A, for a specific joist depth and hole diameter, the hole factor is obtained.
2. Using the hole factor and the span of the joist the minimum distance from center line of support to the center line of the hole can be obtained from the Table B.
3. The instructions noted at the bottom of Figure No. 2 are also applicable to OSB webs.